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10/564,536	01/12/2006	Willem M. J. M. Coene	NL 031212	3482
24737 7590 (37A1/2009) PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			PENDLETON, DIONNE	
BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2627	•
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/564.536 COENE ET AL. Office Action Summary Examiner Art Unit DIONNE H. PENDLETON 2627 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 January 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-14 and 16-19 is/are rejected. 7) Claim(s) 15 is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 1/12/2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date \_

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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#### DETAILED ACTION

### Drawings

1. Figures 10A and 10B should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 18 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 18 is drawn to a "computer program" per se, therefore, fail(s) to fall within a statutory category of invention.

A claim directed to a computer program itself is non-statutory because it is not:

A process occurring as a result of executing the program, or

A machine programmed to operate in accordance with the program, or

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A manufacture structurally and functionally interconnected with the program in a manner which enable the program to act as a computer component and realize its functionality, or

A composition of matter.

See MPEP § 2106.01. Data structures not claimed as embodied in computer readable media are descriptive material per se and are not statutory because they are not capable of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any structural and functional interrelationships between the data structure and other claimed aspects of the invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer readable medium encoded with a data structure defines structural and functional interrelationships between the data structure and the computer software and hardware components which permit the data structure's functionality to be realized. and is thus statutory. Similarly, computer programs claimed as computer listings per se, i.e., the descriptions or expressions of the programs are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

### Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

....

The specification shall conclude with one or more claims particularly pointing out and distinctly

claiming the subject matter which the applicant regards as his invention.

Claims 4-13 are rejected under 35 U.S.C. 112, second paragraph, as being

indefinite for failing to particularly point out and distinctly claim the subject matter which

indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention.

Claim 4 recites "method of determining write parameters for recording

information on a record carrier, in particular as claimed in claim 1". The phrase "in

particular" makes the claim unclear whether claim 4 is actually limited to the steps in

claim 1, i.e., fails to distinctly recite those features to be regarded as the invention.

Correction is required. Claims 5-13 are similarly rejected as they depend from claim 4

and therefore have the limitations of claim 4 incorporated therein.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 14, and 16-19 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Chandler (EP 0484132A2) in view of Kraemer (US 6,947,363).

Regarding claims 1,14,16,17, 18, and 19,

Chandler teaches a device which operates according to a method, for

reproducing/recording information (Fig. 10), said information being in the form of a

multi-dimensional channel data stream to be recorded as a channel band of at least two

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symbol rows one-dimensionally evolving along a first direction and aligned with each other along a second direction (figure 1), the information being in the form of a symbol unit (Figure 5A) comprising a central symbol and a number of neighboring symbols of which some are located on the same symbol row as the central symbol and others are located on neighboring symbol rows, and further wherein the information is determined under joint consideration of (i) the symbol value of the central symbol of the symbol unit; (iii) the symbol values of the neighboring symbols of the symbol unit located in the same symbol row as the central symbol of the symbol unit; and (iii) the symbol values of neighboring symbols of the symbol unit located in the symbol rows that are neighboring the symbol row of the central symbol of the symbol unit (column 5, lines 42-50 and column 6, lines 44-45 disclose that the position of the symbols operate to encode information wherein the symbols are hexagonal in formation thereby corresponding to the joint consideration of (i)-(iii) as claimed).

Chandler fails to expressly teach that the symbol units are on a record carrier and are used for determining write parameters for recording information on a record carrier.

Kraemer teaches a method/device for acquiring information from a record carrier (column 12, lines 45-50) having symbol units thereon by way of determining signal intensity, corresponding at least in part to "write parameters", as a function of a central symbol unit and surrounding symbol units (see column 3, lines 66-column 4, line 3; and column 8, lines 15-20).

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It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Chandler and Kraemer, for the purpose enabling the encoding of information in higher densities on a record carrier.

#### Regarding claim 2,

Kraemer teaches that said write parameters are determined by use of a parameter table containing the write parameters for all possible classes of symbol units, from which the write parameters for recording a pit-symbol of the symbol unit are selected according to the actual symbol unit (in column 4, lines 4-15, Kraemer discloses an array of signal intensities for use in extracting information wherein said information is extracted as a function of spacing between symbol units).

# Regarding claim 3,

Kraemer teaches that said write parameters of said symbols are signal intensities, which correspond at least in part to "the power level of a single write pulse".

# Allowable Subject Matter

5. Claims 4-13 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIONNE H. PENDLETON whose telephone number is (571)272-7497. The examiner can normally be reached on 10:30-7:00 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8301.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dionne H Pendleton/ Examiner, Art Unit 2627

/Wayne Young/ Supervisory Patent Examiner, Art Unit 2627